

**REMARKS**

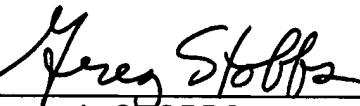
Claims 1 - 6 are now pending in the application. Claims 1 and 5 have been amended and Claims 2 – 4 and 6 remain unchanged. The purpose of this Amendment is to put the amendments originally submitted under Article 19 in the International Application in compliance with the requirements of 37 CFR 1.121(c).

Applicants respectfully submit that no new matter has been added and that the basis for the amendments can be found throughout the drawings, specification, and claims as originally filed in the priority documents. In view of the foregoing amendments, Applicants respectfully submit that the Application is in condition for substantive examination and such examination is earnestly solicited.

Respectfully submitted,

Dated: Feb 4, 2003

By:

  
\_\_\_\_\_  
Gregory A. STOBBS  
Reg. No. 28,764

HARNESS, DICKEY & PIERCE, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

## **ATTACHMENT FOR CLAIM AMENDMENTS**

The following is a marked up version of each amended claim in which underlines indicates insertions and brackets indicate deletions.

1. (Amended) An ink jet head, comprising a head body which is provided with a plurality of nozzles and a plurality of pressure chambers and actuators respectively corresponding to the nozzles, and a driver IC for outputting driving signals for driving the actuators, wherein:

the actuators are arranged on a surface of the head body in a plurality of columns so as to form a plurality of actuator columns;

signal input terminals of the actuators are arranged locally in a predetermined area between the actuator columns;

the driver IC is provided with signal output terminals arranged so as to respectively correspond to the signal input terminals of the actuators; and

the driver IC is mounted on the head body by being directly attached thereto by face down bonding so that the signal output terminals and the signal input terminals are connected to each other.

5. (Amended) An ink jet head, comprising a head body which is provided with a plurality of nozzles and a plurality of pressure chambers and actuators respectively corresponding to the nozzles, and a driver IC for outputting driving signals for driving the actuators, wherein:

the actuators are arranged on a surface of the head body;  
a signal input terminal of each actuator is provided on the surface of the head body near the actuator;

the driver IC is provided with signal output terminals provided so as to respectively correspond to the signal input terminals of the actuators; and

the driver IC is mounted on the head body by being directly attached thereto by face down bonding so that the signal output terminals and the signal input terminals are connected to each other.